

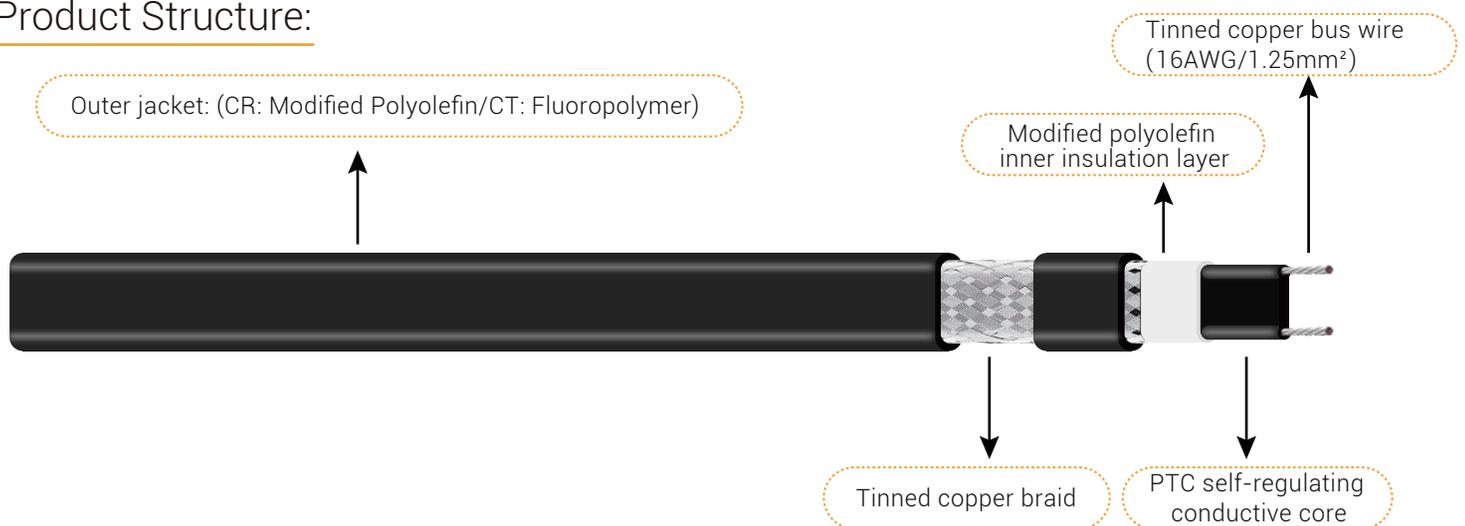


## HTLe low temperature self-regulating heating cable

### Overview:

Jiahong HTLe low temperature self-regulating heating cable can be used for pipe antifreeze (including plastic and metal pipes), roof and gutter in residential and commercial applications. No matter whether the pipeline is overhead or buried installation, HTLe heating cable can maintain the temperature and phase structure of the medium in the pipeline or vessel, and can also be used for the snow melting and de-icing on the roof of residential buildings & buildings and in the gutter area of large buildings as well as to prevent potential safety risk caused by snow; Generally, HTLe heating cable is mostly used to freeze protection and snow melting protection on water pipes, fire sprinkler pipes, grease waste pipes and similar pipes.

### Product Structure:



The extruded core tape, which made by parallel tinner copper bus wire and PTC semiconductor polymer heating material, and inner insulation layer of modified polyolefin are added to tinned copper braid and the outer jacket form a complete structure of HTLe heating cable, in which the outer jacket can be made of modified polyolefin material (CR) or fluoropolymer material (CT) according to different application or area.

### Product Feature:

- ◆ HTLe heating cable is certified by UL laboratories, IECEx, ATEX, UL (America), NEPSI (China) and EAC (Russia), including explosion-proof application, which can be used in the explosion area and ordinary safety area.
- ◆ According to the characteristics of automatic adjustment of power output based on ambient temperature, it can avoid overheating or burning on heating cable even in the case of overlapping installation; Simultaneously this feature can increase the efficiency of the heat tracing system and reduce energy consumption.
- ◆ It is allowed to cut arbitrarily within the interval specified by the maximum circuit length and connect with compliance accessories.
- ◆ It has a complete series of accessory, including standard power box, splice/tee connection box and end seal box etc, which can ensure the long service life of the product.
- ◆ HTLe heating cable has passed a series of test including UV testing according to international standard, which is ensured that the product will not be broken or life reduction due to exposed to the air for a long time without insulation layer installation.



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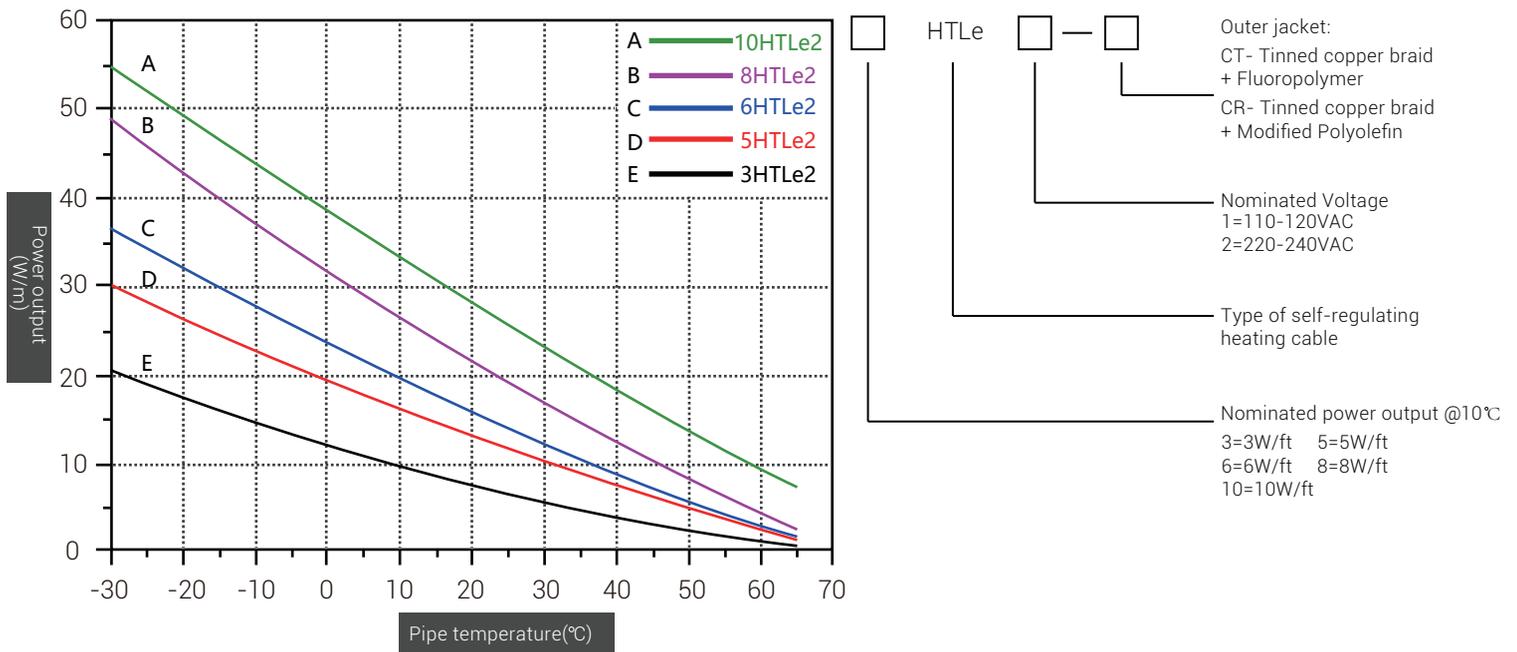
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## Technical Specification:

Nominated Voltage:	110-120V(HTLe1) / 220-240V(HTLe2)
Maximum maintaince temperature:	+65°C (150°F)
Maximum intermittent exposure temperature:	+85°C (185°F)
Temperature classification:	T6
IP level:	IP66/67
Minimum installation temperature:	-60°C (-76°F)
Minimum bending radius:	30mm
Nominated power output @10°C:	3W/ft, 5W/ft, 6W/ft, 8W/ft, 10W/ft
Dimension:	CR: 10.86mm(W)×5.96mm(T) / CT: 10.26mm(W)×5.36mm(T)
Approvals mark:	       

## Power output curve:



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120Vac Service Voltage:

CB size(A)	Start-up temperature °C ( °F )	Max Circuit length Vs Breaker Size (ft)				
		3HTLe1	5HTLe1	6HTLe1	8HTLe1	10HTLe1
16	10 (50)	326	230	192	154	145
	0 (32)	321	212	177	139	129
	-10 (14)	299	203	169	126	118
	-20 (-4)	281	190	159	114	109
	-40 (-40)	237	156	130	101	95
20	10 (50)	326	263	219	198	182
	0 (32)	326	263	219	181	162
	-10 (14)	326	239	199	159	148
	-20 (-4)	326	223	186	146	136
	-40 (-40)	299	192	160	127	119
25	10 (50)	326	263	219	201	192
	0 (32)	326	263	219	201	192
	-10 (14)	326	263	219	201	185
	-20 (-4)	326	263	219	201	171
	-40 (-40)	326	263	219	188	148
32	10 (50)	326	263	219	201	192
	0 (32)	326	263	219	201	192
	-10 (14)	326	263	219	201	192
	-20 (-4)	326	263	219	201	192
	-40 (-40)	326	263	219	201	190
40	10 (50)	326	263	219	201	192
	0 (32)	326	263	219	201	192
	-10 (14)	326	263	219	201	192
	-20 (-4)	326	263	219	201	192
	-40 (-40)	326	263	219	201	192



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### 240Vac Service Voltage:

CB size(A)	Start-up temperature °C (°F)	Max Circuit Length Vs Breaker Size (ft)				
		3HTLe1	5HTLe1	6HTLe1	8HTLe1	10HTLe1
16	10 (50)	652	460	383	309	291
	0 (32)	641	424	353	278	259
	-10 (14)	598	406	338	252	237
	-20 (-4)	562	380	317	228	218
	-40 (-40)	475	312	260	201	190
20	10 (50)	652	525	438	396	363
	0 (32)	652	525	438	362	323
	-10 (14)	652	478	399	319	296
	-20 (-4)	652	446	371	292	273
	-40 (-40)	598	384	320	255	237
25	10 (50)	652	525	438	403	383
	0 (32)	652	525	438	403	383
	-10 (14)	652	525	438	403	370
	-20 (-4)	652	525	438	403	341
	-40 (-40)	652	525	438	376	296
32	10 (50)	652	525	438	403	383
	0 (32)	652	525	438	403	383
	-10 (14)	652	525	438	403	383
	-20 (-4)	652	525	438	403	383
	-40 (-40)	652	525	438	403	379
40	10 (50)	652	525	438	403	383
	0 (32)	652	525	438	403	383
	-10 (14)	652	525	438	403	383
	-20 (-4)	652	525	438	403	383
	-40 (-40)	652	525	438	403	383

### Description:

1. The maximum circuit length shown is in accordance with IEC 60898, with Type C circuit breakers as standard, at reference start-up temperature and 10 °C Experimental data obtained from instantaneous trip current characteristics under maintenance temperature conditions. For the maximum loop length corresponding to other trip current characteristics or other types of circuit breakers, please contact the technical representative of Jiahong Company.

2. Although the heat tracing system is generally used to maintain the medium in the pipe or vessel at the required temperature level, the self-regulating heat tracing cable may be at a lower temperature level when it is energized. For design data when the starting temperature is lower than the above temperature, please contact the technical representative of Jiahong Company.

3. Maximum loop length refers to the continuous length of the heating cable, not the sum of the lengths of multiple sections. Relating to current load for each section, please contact the technical representative of Jiahong Company.



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